

IMAGE SENSOR HAVING ABUTTING LINEAR ARRAYS

The invention relates to large-dimension linear image sensors operating by relative translation between the image and the sensor and consisting of a plurality of linear arrays abutting in a staggered fashion.

In order to improve the design of the sensor, according to the invention the arrays (P1, P2, P3) are mounted on packages (B1, B2, B3) whose upper surface has an elongate rectangular shape provided on two opposite sides of the rectangle (24, 26) with two extensions (30, 32) substantially covered by the ends of the array, two adjacent packages bearing against each other along a respective extension of each of them. The staggered arrangement prevents the blind zones, photosensitive points (40, 40') being present in the extensions (30, 32), and the offset between the two rows of staggered chips is practically no greater than the width of the chips.

Application: high-resolution imaging

Figure for the abstract: Figure 6